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FILE COVERS 1907 - 12 Jan 2010 VOL 152 ISS 3
FILE LAST UPDATED: 11 Jan 2010 (20100111/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2009

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s US 20060228607/pn
L1 1 US 20060228607/PN
(US20060228607/PN)

=> d l1 all

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2010 ACS on STN
AN 2004:534488 CAPLUS
DN 141:74309
ED Entered STN: 02 Jul 2004
TI Membrane-electrode assembly for fuel cell
IN Zaopo, Antonio; Lopes, Correia Tavares Ana Berta; Dubitsky, Yuri A.
PA Pirelli & C. S.P.A., Italy
SO PCT Int. Appl., 24 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM H01M008-00

CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
 Section cross-reference(s): 38

FAN.CMT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004055927	A2	20040701	WO 2002-EP14246	20021213
	WO 2004055927	A3	20060119		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	CA 2508835	A1	20040701	CA 2002-2508835	20021213
	AU 2002356654	A1	20040709	AU 2002-356654	20021213
	AU 2002356654	B2	20090820		
	EP 1576683	A2	20050921	EP 2002-808237	20021213
	EP 1576683	B1	20060607		
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK			
	AT 329374	T	20060615	AT 2002-808237	20021213
	JP 2006520992	T	20060914	JP 2004-559642	20021213
	ES 2266642	T3	20070301	ES 2002-808237	20021213
	US 20060228607	A1	20061012	US 2006-538352	20060414 <--
PRAI	EP 2002-808237	A	20021213		
	WO 2002-EP14246	W	20021213		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004055927	ICM	H01M008-00
	IPCI	H01M0008-00 [ICM,7]; H01M0008-10 [ICS,7]
	IPCR	H01M0004-90 [N,C*]; H01M0004-92 [N,A]; H01M0008-00 [I,C*]; H01M0008-00 [I,A]; H01M0008-10 [I,C*]; H01M0008-10 [I,A]
CA 2508835	ECLA	H01M008/10E2; T01M; T01M
	IPCI	H01M0008-00 [ICM,7]
	IPCR	H01M0004-90 [N,C*]; H01M0004-92 [N,A]; H01M0008-00 [I,C*]; H01M0008-00 [I,A]; H01M0008-10 [I,C*]; H01M0008-10 [I,A]
AU 2002356654	ECLA	H01M008/10E2; T01M; T01M
	IPCI	H01M0008-00 [I,C*]; H01M0008-00 [I,A]; H01M0004-90 [N,C*]; H01M0004-92 [N,A]; H01M0008-10 [I,C*]; H01M0008-10 [I,A]
	IPCR	H01M0008-00 [I,C*]; H01M0008-00 [I,A]; H01M0004-90 [N,C*]; H01M0004-92 [N,A]; H01M0008-10 [I,C*]; H01M0008-10 [I,A]
EP 1576683	ECLA	H01M008/10E2; T01M; T01M
	IPCI	H01M0008-00 [I,C]; H01M0008-00 [I,A]
	IPCR	H01M0008-00 [I,A]; H01M0004-90 [N,C*]; H01M0004-92 [N,A]; H01M0008-00 [I,C]; H01M0008-10 [I,C*]; H01M0008-10 [I,A]
AT 329374	ECLA	H01M008/10E2; T01M; T01M
	IPCI	H01M0008-00 [ICM,7]
	IPCR	H01M0004-90 [N,C*]; H01M0004-92 [N,A]; H01M0008-00 [I,C*]; H01M0008-00 [I,A]; H01M0008-10 [I,C*]; H01M0008-10 [I,A]
JP 2006520992	ECLA	H01M008/10E2; T01M; T01M
	IPCI	H01M0008-02 [I,A]; H01M0008-10 [I,A]

IPCR H01M0008-02 [I,C]; H01M0008-02 [I,A]; H01M0004-90
 [N,C*]; H01M0004-92 [N,A]; H01M0008-00 [I,C*];
 H01M0008-00 [I,A]; H01M0008-10 [I,C]; H01M0008-10 [I,A]
 ECLA H01M0008/10E2; T01M; T01M
 FTERM 5H026/AA06; 5H026/CX05; 5H026/EE18; 5H026/HH05
 ES 2266642 IPCI H01M0008-00 [I,C]; H01M0008-00 [I,A]
 IPCR H01M0008-00 [I,C]; H01M0008-00 [I,A]; H01M0004-90
 [N,C*]; H01M0004-92 [N,A]; H01M0008-10 [I,C*];
 H01M0008-10 [I,A]
 US 20060228607 ECLA H01M0008/10E2; T01M; T01M
 IPCI H01M0008-10 [I,A]
 IPCR H01M0008-10 [I,C]; H01M0008-10 [I,A]; H01M0004-90
 [N,C*]; H01M0004-92 [N,A]; H01M0008-00 [I,C*];
 H01M0008-00 [I,A]
 NCL 429/033.000
 ECLA E21B003/02; H02K001/16; H02K001/18B; H02K001/30;
 H02K005/04; H02K007/102; H02K007/14; H02K009/04; T02K;
 T02K; T02K

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB Fuel cell comprising a membrane-electrode assembly includes an anode, a
 cathode, and a polymer electrolyte membrane interposed between the anode
 and the cathode, wherein the polymer electrolyte membrane comprises a
 sulfonated polysulfone polymer.
 ST membrane electrode assembly fuel cell; a sulfonated polysulfone polymer
 electrolyte fuel cell
 IT Ion exchange
 (capacity; membrane-electrode assembly for fuel cell)
 IT Fuel cell electrodes
 Fuel cell electrolytes
 Glass transition temperature
 (membrane-electrode assembly for fuel cell)
 IT Polysulfones, uses
 RL: DEV (Device component use); USES (Uses)
 (polyether-, sulfonated; membrane-electrode assembly for fuel cell)
 IT Fuel cells
 (polymer electrolyte; membrane-electrode assembly for fuel cell)
 IT Polyethers, uses
 RL: DEV (Device component use); USES (Uses)
 (polysulfone-, sulfonated; membrane-electrode assembly for fuel cell)
 IT Electric apparatus
 (portable; membrane-electrode assembly for fuel cell)
 IT Fuel cells
 (power plants; membrane-electrode assembly for fuel cell)
 IT Polysulfones, uses
 RL: DEV (Device component use); USES (Uses)
 (sulfonated; membrane-electrode assembly for fuel cell)
 IT Engines
 (vehicle transportation; membrane-electrode assembly for fuel cell)
 IT 25135-51-7D, sulfonated and alkyl substituted derivs. 40883-78-1D,
 sulfonated and alkyl substituted derivs.
 RL: DEV (Device component use); USES (Uses)
 (membrane-electrode assembly for fuel cell)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE CITED REFERENCES

- (1) Anon; US 5198525 A
- (2) Anon; US 6232025 B1 CAPLUS

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=> S 40883-78-1/RN

L2 1 40883-78-1/RN

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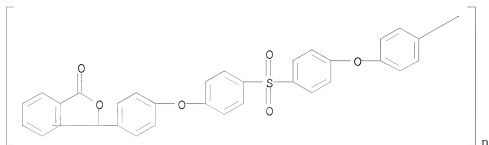
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L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2010 ACS on STN
 RN 40883-78-1 REGISTRY
 CN Poly[(3-oxo-1(3H)-isobenzofuranylidene)-1,4-phenyleneoxy-1,4-
 phenylenesulfonyl-1,4-phenyleneoxy-1,4-phenylene] (CA INDEX NAME)
 OTHER NAMES:
 CN 4,4'-Dichlorodiphenylsulfone-phenolphthalein copolymer, SRU
 CN 4,4'-Difluorodiphenyl sulfone-phenolphthalein copolymer, SRU
 CN Bis(4-fluorophenyl) sulfone-phenolphthalein sodium salt polymer, SRU
 CN Bis(p-chlorophenyl) sulfone-phenolphthalein polymer, SRU
 CN Bis(p-fluorophenyl) sulfone-phenolphthalein polymer, SRU
 CN PES-C
 CN Phenolphthalein-4,4'-sulfonylbis(chlorobenzene) copolymer, SRU
 CN Poly(phthalidylidene-1,4-phenyleneoxy-1,4-phenylenesulfonyl-1,4-
 phenyleneoxy-1,4-phenylene)
 DR 152987-44-5, 91263-05-7, 685088-63-5
 MF (C32 H20 O6 S)n

CI PMS
 PCT Polyether, Polysulfone
 LC STN Files: AGRICOLA, CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL
 DT.CA Caplus document type: Conference; Journal; Patent
 RL.P Roles from patents: PREP (Preparation); PRP (Properties); USES (Uses)
 RLD.P Roles for non-specific derivatives from patents: PREP (Preparation);
 PRP (Properties); USES (Uses)
 RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation);
 PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES
 (Uses)
 RLD.NP Roles for non-specific derivatives from non-patents: PREP
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=> S 25135-51-7/RN

L3 1 25135-51-7/RN

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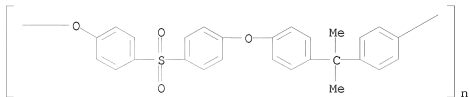
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L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2010 ACS on STN
RN 25135-51-7 REGISTRY
CN Poly[oxy-1,4-phenylenesulfonyl-1,4-phenyleneoxy-1,4-phenylene(1-
methylethylidene)-1,4-phenylene] (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Poly(oxy-p-phenylenesulfonyl-p-phenyleneoxy-p-phenyleneisopropylidene-p-
phenylene) (8CI)
OTHER NAMES:
CN 4,4'-Bisfluorophenyl sulfone-bisphenol A copolymer, SRU
CN 4,4'-Dichlorodiphenyl sulfone-diphenylolpropane disodium salt copolymer,
sru
CN 4,4'-Dichlorodiphenyl sulfone-diphenylolpropane polymer, SRU
CN 4,4'-Dichlorodiphenylsulfone-diphenylolpropane copolymer, sru
CN Amicon Diaflo PM 30
CN Amicon PM 30
CN Amoco P 3500
CN B 10
CN B 10 (polyethersulfone)
CN Bis(4-chlorophenyl) sulfone-2,2-bis(4-hydroxyphenyl)propane copolymer, SRU
CN Bis(4-chlorophenyl) sulfone-bisphenol A copolymer, SRU
CN Bis(p-fluorophenyl) sulfone-bisphenol A polymer, SRU
CN Bisphenol A disodium salt-4,4'-dichlorodiphenyl sulfone copolymer, SRU
CN Bisphenol A polysulfone
CN Bisphenol A-4,4'-dichlorodiphenyl sulfone copolymer, SRU
CN Bisphenol A-4,4'-dichlorodiphenyl sulfone polymer, SRU
CN Bisphenol A-4,4'-difluorodiphenyl sulfone copolymer, SRU
CN Bisphenol A-4,4'-dihydroxydiphenyl sulfone copolymer, sru
CN Bisphenol A-4,4'-dihydroxydiphenyl sulfone polymer, SRU
CN Bisphenol A-4,4'-sulfonyldiphenol polymer, SRU
CN Bisphenol A-bis(4-chlorophenyl) sulfone copolymer, SRU

CN Bisphenol A-bis(p-chlorophenyl) sulfone polymer, SRU
 CN Bisphenol A-p,p'-dichlorodiphenyl sulfone copolymer, SRU
 CN Bisphenol A-p-chlorophenyl sulfone copolymer, SRU
 CN Bisphenol A-p-dichlorodiphenylsulfone copolymer, SRU
 CN Desal E 100
 CN Diaflo PM 30
 CN Dian-4,4'-difluorodiphenyl sulfone copolymer, SRU
 CN FS 1200
 CN Gafone S 1500
 CN Gafone S 1500P
 CN Gatone 3200P
 CN IRIS 3026
 CN Kimfone
 CN OASO 10D
 CN P 1700
 CN P 1700BK937
 CN P 1700NT
 CN P 1700NT11
 CN P 1720
 CN P 1800
 CN P 1800NT
 CN P 3500
 CN P 3703
 CN PEESF
 CN PM 30
 CN Poly(oxy-1,4-phenylenesulfonyl-1,4-phenyleneoxy-1,4-phenyleneisopropylidene-1,4-phenylene)
 CN Poly(oxy-p-phenyleneisopropylidene-p-phenyleneoxy-p-phenylenesulfonyl-p-phenylene)
 CN Poly(sulfonyl-p-phenyleneoxy-p-phenyleneisopropylidene-p-phenyleneoxy-p-phenylene)
 ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY
 DR 850081-57-1, 953795-39-6, 1054451-59-0, 916042-54-1, 949586-40-7, 949586-44-1, 496947-79-6, 9084-64-4, 171040-41-8, 126430-90-8, 58516-07-7, 54847-90-4, 63770-66-1, 133019-40-6, 24937-09-5, 94336-28-4, 98989-93-6, 113536-31-5, 113552-88-8, 50958-07-1, 51310-66-8, 51426-17-6, 119441-79-1, 119441-80-4, 119441-81-5, 119468-26-7, 115232-25-2, 136922-61-7, 136959-77-8, 37340-43-5, 77538-70-6, 78954-28-6, 85189-46-4, 84930-41-6, 84930-44-9, 87714-78-1, 87806-52-8, 92480-75-6, 26699-43-4, 26894-27-9, 30792-92-8, 38797-91-0, 38797-92-1, 42881-29-8, 118087-83-5, 169741-56-4, 313273-52-8, 370868-43-2, 685088-61-3, 685088-62-4
 MF (C27 H22 O4 S)n
 CI PMS, COM
 PCT Polyether, Polysulfone
 LC STN Files: AGRICOLA, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, PIRA, PROMT, SPECINFO, TOXCENTER, USPAT2, USPATFULL, USPATOLD
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=> FILE REGISTRY

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STRUCTURE FILE UPDATES: 11 JAN 2010 HIGHEST RN 1201890-95-0
DICTIONARY FILE UPDATES: 11 JAN 2010 HIGHEST RN 1201890-95-0

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TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

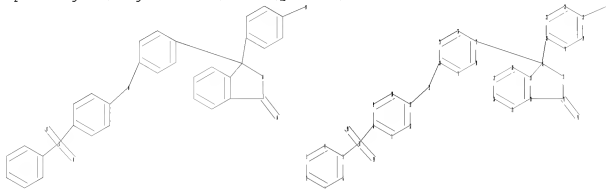
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=>

Uploading C:\Program Files\STNEXP\Queries\10538352.str



chain nodes :

31 32 34 35 38 39

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 26 27 28 29 30 33 36 37

chain bonds :

5-31 8-31 11-32 14-32 17-36 20-36 23-35 31-38 31-39 34-37

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-18
14-15 15-16 16-17 17-18 19-20 19-24 20-21 21-22 22-23 23-24 25-26 25-30
26-27 27-28 28-29 29-30 29-36 30-37 33-36 33-37

exact/norm bonds :

5-31 8-31 11-32 14-32 23-35 29-36 30-37 31-38 31-39 33-36 33-37 34-37

exact bonds :

17-36 20-36

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-18
14-15 15-16 16-17 17-18 19-20 19-24 20-21 21-22 22-23 23-24 25-26 25-30
26-27 27-28 28-29 29-30

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom
29:Atom 30:Atom 31:CLASS 32:CLASS 33:Atom 34:CLASS 35:CLASS 36:Atom 37:Atom
38:CLASS 39:CLASS

L1 STRUCTURE UPLOADED

=> s l1

SAMPLE SEARCH INITIATED 08:36:34 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 10 TO ITERATE

100.0% PROCESSED 10 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 11 TO 389
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 all

COMBINATION OF STRUCTURE AND TEXT TERMS NOT VALID
The query entered contains both search terms created by
structure-building or screen commands and text search terms. L#s
created via the STRUCTURE or SCREEN commands must be searched in the
structures files separately from text terms or profiles. The L#
answer sets from structure searches can be used in crossover searches
and can be combined with text terms.

=> s l1 full

FULL SEARCH INITIATED 08:36:55 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 170 TO ITERATE

100.0% PROCESSED 170 ITERATIONS 12 ANSWERS
SEARCH TIME: 00.00.01

L3 12 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	191.54	191.76

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FILE COVERS 1907 - 13 Jan 2010 VOL 152 ISS 3
FILE LAST UPDATED: 11 Jan 2010 (20100111/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2009

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4 187 L3

=> s l4 and membrane

873636 MEMBRANE

368337 MEMBRANES

973274 MEMBRANE

(MEMBRANE OR MEMBRANES)

L5 54 L4 AND MEMBRANE

=> s l5 and fuel cell

491707 FUEL

187993 FUELS

549417 FUEL

(FUEL OR FUELS)

2700763 CELL

2309832 CELLS

3507412 CELL

(CELL OR CELLS)

105727 FUEL CELL

(FUEL(W)CELL)

L6 7 L5 AND FUEL CELL

=> d l6 1-7 ti pn

L6 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2010 ACS on STN

TI Characterization and performance of sulfonated phenolphthalein poly/montmorillonite proton conducting composite membranes

L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2010 ACS on STN

TI Proton conducting composite membranes from sulfonated polyethersulfone Cardo and phosphotungstic acid for fuel cell application

L6 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2010 ACS on STN

TI Quaternized polyethersulfone Cardo anion exchange membranes for direct methanol alkaline fuel cells

L6 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2010 ACS on STN

TI Sulfonated polyethersulfone Cardo membranes for direct methanol fuel cell

L6 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2010 ACS on STN

TI Comparison of properties of membranes for direct methanol fuel cells

L6 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2010 ACS on STN

TI Membrane-electrode assembly for fuel cell

	PATENT NO.	KIND	DATE
PI	WO 2004055927	A2	20040701
	WO 2004055927	A3	20060119
	CA 2508835	A1	20040701
	AU 2002356654	A1	20040709
	AU 2002356654	B2	20090820
	EP 1576683	A2	20050921
	EP 1576683	B1	20060607
	AT 329374	T	20060615
	JP 2006520992	T	20060914
	ES 2266642	T3	20070301
	US 20060228607	A1	20061012

L6 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2010 ACS on STN

TI New sulfonated polysulfone co-polymer membrane for low temperature fuel cells

=> d 16 7 all

L6 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2010 ACS on STN

AN 2004:44651 CAPLUS

DN 140:377833

ED Entered STN: 19 Jan 2004

TI New sulfonated polysulfone co-polymer membrane for low temperature fuel cells

AU Tavares, A. C.; Pedicini, R.; Gatto, I.; Dubitsky, Yu. A.; Zaopo, A.; Passalacqua, E.

CS Pirelli Labs, Milan, 20126, Italy

SO Journal of New Materials for Electrochemical Systems (2003), 6(4), 211-215
CODEN: JMESFQ; ISSN: 1480-2422

PB Journal of New Materials for Electrochemical Systems

DT Journal

LA English

CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
Section cross-reference(s): 38, 76

AB Membranes based on a new sulfonated polysulfone co-polymer having a pending lactone cardo group in one of the structural units were characterized by ion-exchange capacity, water-up take, TGA and DSC. This sulfonated polysulfone co-polymer is characterized by a low glass transition temperature (138°). Single cell tests in H₂/air fuel cells configuration at 30 and 60° showed for 120 µm membranes power densities of 140 and 210 mW-cm⁻² resp. A stable time performance was measured up to 250 h.

ST sulfonated polysulfone co polymer membrane electrode fuel cell electrolyte

IT Membranes, nonbiological
(elec. conductive, for fuel cell membrane electrodes; new sulfonated polysulfone co-polymer membrane for low temperature fuel cells)

IT Polyoxyalkylenes, uses

RL: DEV (Device component use); USES (Uses)

(fluorine- and sulfo-containing, ionomers, composite electrode with platinum; new sulfonated polysulfone co-polymer membrane for low temperature fuel cells)

IT Cation exchange

Conducting polymers

Fuel cell electrolytes

Fuel cells

Glass transition temperature

Membrane electrodes
(new sulfonated polysulfone co-polymer membrane for low temperature fuel cells)

IT Electric resistance

Open circuit potential
(of assembled fuel cell; new sulfonated polysulfone co-polymer membrane for low temperature fuel cells)

IT Absorption
(of water; new sulfonated polysulfone co-polymer membrane for low temperature fuel cells)

IT Electric current-potential relationship
(polarization curves of fuel cell; new sulfonated polysulfone co-polymer membrane for low temperature fuel cells)

IT Polyketones
RL: DEV (Device component use); PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); PROC (Process); USES (Uses)
(polyether-, sulfonated; new sulfonated polysulfone co-polymer membrane for low temperature fuel cells)

IT Polyoxyphenylenes
RL: DEV (Device component use); PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); PROC (Process); USES (Uses)
(polyketone-, cardo; new sulfonated polysulfone co-polymer membrane for low temperature fuel cells)

IT Polyethers, uses
RL: DEV (Device component use); PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); PROC (Process); USES (Uses)
(polyketone-, sulfonated; new sulfonated polysulfone co-polymer membrane for low temperature fuel cells)

IT Fluoropolymers, uses
RL: DEV (Device component use); USES (Uses)
(polyoxyalkylene-, sulfo-containing, ionomers, composite electrode with platinum; new sulfonated polysulfone co-polymer membrane for low temperature fuel cells)

IT Ionomers
RL: DEV (Device component use); USES (Uses)
(polyoxyalkylenes, fluorine- and sulfo-containing, composite electrode with platinum; new sulfonated polysulfone co-polymer membrane for low temperature fuel cells)

IT Polyketones
RL: DEV (Device component use); PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); PROC (Process); USES (Uses)
(polyoxyphenylene-, cardo; new sulfonated polysulfone co-polymer membrane for low temperature fuel cells)

IT Polysulfones, uses
RL: DEV (Device component use); PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); PROC (Process); USES (Uses)
(sulfonated; new sulfonated polysulfone co-polymer membrane

for low temperature fuel cells)
IT 7664-93-9, Sulfuric acid, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(Nafion preparation; new sulfonated polysulfone co-polymer membrane
for low temperature fuel cells)
IT 7732-18-5, Water, processes
RL: PEP (Physical, engineering or chemical process); PYP (Physical
process); PROC (Process)
(absorption; new sulfonated polysulfone co-polymer membrane
for low temperature fuel cells)
IT 7440-06-4, Platinum, uses
RL: DEV (Device component use); USES (Uses)
(composite electrode with Nafion; new sulfonated polysulfone co-polymer
membrane for low temperature fuel cells)
IT 1333-74-0, Hydrogen, uses
RL: CPS (Chemical process); PEP (Physical, engineering or chemical
process); TEM (Technical or engineered material use); PROC (Process); USES
(Uses)
(new sulfonated polysulfone co-polymer membrane for low temperature
fuel cells)
IT 40883-78-1D, sulfonated
RL: DEV (Device component use); PEP (Physical, engineering or chemical
process); PRP (Properties); PYP (Physical process); PROC (Process); USES
(Uses)
(new sulfonated polysulfone co-polymer membrane for low temperature
fuel cells)
IT 66796-30-3, Nafion 117
RL: DEV (Device component use); PRP (Properties); USES (Uses)
(new sulfonated polysulfone co-polymer membrane for low temperature
fuel cells)
OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)
UPOS.G Date last citing reference entered STN: 18 Feb 2009
OS.G CAPLUS 2008:1490084; 2008:325290; 2007:1328804; 2007:654015
RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE CITED REFERENCES
(1) Andrus, M; WO 01/71839 2001 CAPLUS
(2) Arnold, C; J Membrane Sci 1988, V38, P71 CAPLUS
(3) Charnock, P; WO 00/15691 2000 CAPLUS
(4) Gilbert, E; Sulfonation and Related Reactions 1965
(5) Lufrano, F; J Appl Polym Sci 2000, V77, P1250 CAPLUS
(6) Lufrano, F; Solid State Ionics 2001, V145, P47 CAPLUS
(7) Mottet, C; Polym Bull 1982, V8, P511 CAPLUS
(8) Nolte, R; J Membrane Sci 1993, V83, P211 CAPLUS
(9) Noshay, A; J Appl Polym Sci 1976, V20, P1885 CAPLUS
(10) Reidinger, H; J Membrane Sci 1988, V36, P5
(11) Rusanov, A; Uspekhi Khimii, in Russian 2002, V71, P862
(12) Wei, X; J Am Chem Soc 1996, V118, P2545 CAPLUS
(13) Zschocke, P; J Membrane Sci 1985, V22, P325 CAPLUS

=> s 15 not 16
L7 47 L5 NOT L6
=> S L7 AND PY<=2004
25162179 PY<=2004
L8 27 L7 AND PY<=2004
=> d 18 1-27 ti pn

L8 ANSWER 1 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
TI Effect of additives on structure and performance of PSF/PES-C alloy
membranes

L8 ANSWER 2 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Study on the integrated membrane process of dehumidification of compressed air and gas-phase dehydration of ethanol

L8 ANSWER 3 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Sulfonation of polysulfones: suitability of the sulfonated materials for asymmetric membrane preparation

L8 ANSWER 4 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Gas permeabilities of cardo polyoxyarylene membranes

L8 ANSWER 5 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Gas and Water Vapor Transport through a Series of Novel Poly(aryl ether sulfone) Membranes

L8 ANSWER 6 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Study on the formation process of asymmetric CO₂ separation membrane

L8 ANSWER 7 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Novel hydrophilic membrane materials: sulfonated polyethersulfone Cardo

L8 ANSWER 8 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Study on the separation of methanol-MTBE vapor mixtures with blended hollow fiber membranes of polyimide and sulfonated poly(ether-sulfone)

L8 ANSWER 9 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Study on modified ultrafiltration membrane by FTIR reflectance spectroscopy

L8 ANSWER 10 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Dehumidification properties of polyimide hollow fiber membrane and its application in gas phase dehydration of ethanol

L8 ANSWER 11 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Preparation of gas dehydration membrane by using blends of sulfonated poly(ether-sulfone) and soluble polyimide

L8 ANSWER 12 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Membrane characterization of phenoxy / PES Blends

L8 ANSWER 13 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Permeation of nitrogen and water vapor through sulfonated polyetherethersulfone membrane

L8 ANSWER 14 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Synthesis and characterization of several new cardo aromatic polyether-polysulfones

L8 ANSWER 15 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Gas permeation behavior of several new cardo polyarylethersulfone membranes

L8 ANSWER 16 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Catalytic behaviors and gas permeation properties of palladium-containing phenolphthalein poly(ether sulfone)

L8 ANSWER 17 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Gas transport properties of a series of new poly(aryl ether sulfones)

L8 ANSWER 18 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
TI Study on polymer blends flat sheet UF membranes

L8 ANSWER 19 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
TI Integrally skinned asymmetric poly(ether sulfone) membrane made by dry/wet phase inversion

L8 ANSWER 20 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
TI Preparation of sulfonated polyether-sulfone microporous ultrafiltration membranes

	PATENT NO.	KIND	DATE
PI	CN 1071100	A	19930421
	CN 1034991	C	19970528

<--

L8 ANSWER 21 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
TI Research on PES/PDC blend UF membranes

L8 ANSWER 22 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
TI A study of charged nanofiltration membranes

L8 ANSWER 23 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
TI Studies on charged nanofiltration membranes

L8 ANSWER 24 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
TI Research of the polyether-polysulfone and cardo polyether-polyketone and polyether-polysulfone ultrafiltration membranes

L8 ANSWER 25 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
TI Permeation and conditioning effects in phenolphthalein-based polysulfone

L8 ANSWER 26 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
TI Tests for thermal stability of ultrafiltration membranes

L8 ANSWER 27 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
TI Gas permeation behavior of phenolphthalein-based heat-resistant polymers PEK-C and PES-C

=> d 18 8 all

L8 ANSWER 8 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
AN 2000:166998 CAPLUS

DN 133:151520

ED Entered STN: 14 Mar 2000

TI Study on the separation of methanol-MTBE vapor mixtures with blended hollow fiber membranes of polyimide and sulfonated poly(ether-sulfone)

AU Shi, Baoli; Wu, Yonglie; Liu, Jingzhi; Kong, Qingyi; Peng, Xi

CS Changchun Inst. Applied Chem., Chinese Acad. Sciences, Changchun, 130022, Peop. Rep. China

SO Mo Kexue Yu Jishu (1999), 19(6), 48-51

CODEN: MKYJEF; ISSN: 0254-6140

PB Mo Kexue Yu Jishu Bianjibu

DT Journal

LA Chinese

CC 38-3 (Plastics Fabrication and Uses)

AB The separation properties of the vapor mixts. of methanol-MTBE (Me tert-Bu ether) using the hollow fiber membranes, which were made with soluble polyimide and sulfonated poly(ether-sulfone) in different blending proportions and the effects of different operating factors on the separating

properties have been studied. The operation of sweeping with nitrogen flow was used. The separation coeffs. of the modified polyimide hollow fiber membranes for methanol-MTBE mixts. are extremely high. The application prospects is great.

ST polyimide hollow fiber membrane methanol methyl butyl ether seph; sulfonated polyether polysulfone hollow fiber membrane

IT Membranes, nonbiological
(hollow-fiber; separation of methanol-Me tert-Bu ether vapor mixts. with blended hollow fiber membranes of polyimide and sulfonated poly(ether-sulfone))

IT Polysulfones, uses
Polysulfones, uses
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(polyether-, aromatic, cardo, polyimide blend; separation of methanol-Me tert-Bu ether vapor mixts. with blended hollow fiber membranes of polyimide and sulfonated poly(ether-sulfone))

IT Polyimides, uses
Polyimides, uses
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(polyether-, aromatic; separation of methanol-Me tert-Bu ether vapor mixts. with blended hollow fiber membranes of polyimide and sulfonated poly(ether-sulfone))

IT Polysulfones, uses
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(polyether-, cardo, aromatic, polyimide blend; separation of methanol-Me tert-Bu ether vapor mixts. with blended hollow fiber membranes of polyimide and sulfonated poly(ether-sulfone))

IT Cardo polymers
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(polyether-polysulfones, aromatic, polyimide blend; separation of methanol-Me tert-Bu ether vapor mixts. with blended hollow fiber membranes of polyimide and sulfonated poly(ether-sulfone))

IT Polyethers, uses
Polyethers, uses
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(polyimide-, aromatic; separation of methanol-Me tert-Bu ether vapor mixts. with blended hollow fiber membranes of polyimide and sulfonated poly(ether-sulfone))

IT Polymer blends
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(polyimide-sulfonated poly(ether-sulfone); separation of methanol-Me tert-Bu ether vapor mixts. with blended hollow fiber membranes of polyimide and sulfonated poly(ether-sulfone))

IT Polyethers, uses
Polyethers, uses
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(polysulfone-, aromatic, cardo, polyimide blend; separation of methanol-Me tert-Bu ether vapor mixts. with blended hollow fiber membranes of polyimide and sulfonated poly(ether-sulfone))

IT Polyethers, uses
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(polysulfone-, cardo, aromatic, polyimide blend; separation of methanol-Me tert-Bu ether vapor mixts. with blended hollow fiber membranes

of polyimide and sulfonated poly(ether-sulfone))

IT Flow
(separation of methanol-Me tert-Bu ether vapor mixts. with blended hollow fiber membranes of polyimide and sulfonated poly(ether-sulfone))

IT 40883-78-1D, PES-C, sulfonated
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(polyimide blend; separation of methanol-Me tert-Bu ether vapor mixts. with blended hollow fiber membranes of polyimide and sulfonated poly(ether-sulfone))

IT 67-56-1, Methanol, processes 1634-04-4, Methyl tert-butyl ether
RL: PEP (Physical, engineering or chemical process); PROC (Process)
(separation of methanol-Me tert-Bu ether vapor mixts. with blended hollow fiber membranes of polyimide and sulfonated poly(ether-sulfone))

IT 162458-95-9 162458-96-0
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(sulfonated poly(ether-sulfone) blend; separation of methanol-Me tert-Bu ether vapor mixts. with blended hollow fiber membranes of polyimide and sulfonated poly(ether-sulfone))

OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

UPOS.G Date last citing reference entered STN: 16 Feb 2009

OS.G CAPLUS 2006:519107

=> d 18 12 all

L8 ANSWER 12 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1997:582317 CAPLUS

DN 127:235296

OREF 127:45912h,45913a

ED Entered STN: 12 Sep 1997

TI Membrane characterization of phenoxy / PES-C Blends

AU Mi, Yongli; Lu, Wenjun; Zheng, Sixun

CS Department of Chemical Engineering, The Hong Kong University of Science and Technology, Kowloon, Hong Kong

SO Polymeric Materials Science and Engineering (1997), 77, 364
CODEN: PMSEDG; ISSN: 0743-0515

PB American Chemical Society

DT Journal

LA English

CC 38-3 (Plastics Fabrication and Uses)
Section cross-reference(s): 37

AB Blends of a bisphenol A-glycerin copolymer with PES-C are characterized via gas permeation, glass transition, and FTIR.

ST phenoxy polysulfone polyether blend permeation; glass transition polyether polysulfone blend

IT Glass transition
Membranes, nonbiological
Permeation
(membrane characterization of phenoxy/PES-C blends)

IT Cardo polymers
Phenoxy resins
Polymer blends
RL: PRP (Properties)
(membrane characterization of phenoxy/PES-C blends)

IT Polysulfones, properties
Polysulfones, properties
RL: PRP (Properties)
(polyether-; membrane characterization of phenoxy/PES-C

blends)

IT Polyethers, properties
Polyethers, properties
RL: PRP (Properties)
(polysulfone-; membrane characterization of phenoxy/PES-C blends)

IT 25068-38-6 40883-78-1,
Poly(phthalidylidene-1,4-phenyleneoxy-1,4-phenylenesulfonyl-1,4-phenyleneoxy-1,4-phenylene)
RL: PRP (Properties)
(membrane characterization of phenoxy/PES-C blends)

IT 74-82-8, Methane, miscellaneous 124-38-9, Carbon dioxide, miscellaneous 7727-37-9, Nitrogen, miscellaneous 7782-44-7, Oxygen, miscellaneous
RL: MSC (Miscellaneous)
(permeation of phenoxy/PES-C membrane blends)

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	68.41	260.17
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-2.55	-2.55

FILE 'REGISTRY' ENTERED AT 08:42:37 ON 13 JAN 2010
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STRUCTURE FILE UPDATES: 11 JAN 2010 HIGHEST RN 1201890-95-0
DICTIONARY FILE UPDATES: 11 JAN 2010 HIGHEST RN 1201890-95-0

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TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=> s NPO chemplast
18 NPO
1 NPOS
19 NPO
(NPO OR NPOS)
0 CHEMPLAST
L9 0 NPO CHEMPLAST
(NPO(W)CHEMPLAST)

=>
Connecting via Winsock to STN

Welcome to STN International! Enter x:X

LOGINID:SSPTAZPB1745

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	AUG 10	Time limit for inactive STN sessions doubles to 40 minutes
NEWS	3	AUG 18	COMPENDEX indexing changed for the Corporate Source (CS) field
NEWS	4	AUG 24	ENCOMPLIT/ENCOMPLIT2 reloaded and enhanced
NEWS	5	AUG 24	CA/Caplus enhanced with legal status information for U.S. patents
NEWS	6	SEP 09	50 Millionth Unique Chemical Substance Recorded in CAS REGISTRY
NEWS	7	SEP 11	WPIDS, WPINDEX, and WPIX now include Japanese FTERM thesaurus
NEWS	8	OCT 21	Derwent World Patents Index Coverage of Indian and Taiwanese Content Expanded
NEWS	9	OCT 21	Derwent World Patents Index enhanced with human translated claims for Chinese Applications and Utility Models
NEWS	10	NOV 23	Addition of SCAN format to selected STN databases
NEWS	11	NOV 23	Annual Reload of IFI Databases
NEWS	12	DEC 01	FRFULL Content and Search Enhancements
NEWS	13	DEC 01	DGENE, USGENE, and PCTGEN: new percent identity feature for sorting BLAST answer sets
NEWS	14	DEC 02	Derwent World Patent Index: Japanese FI-TERM thesaurus added
NEWS	15	DEC 02	PCTGEN enhanced with patent family and legal status display data from INPADOCDB
NEWS	16	DEC 02	USGENE: Enhanced coverage of bibliographic and sequence information
NEWS	17	DEC 21	New Indicator Identifies Multiple Basic Patent Records Containing Equivalent Chemical Indexing in CA/Caplus
NEWS	18	JAN 12	Match STN Content and Features to Your Information Needs, Quickly and Conveniently
NEWS EXPRESS	MAY 26 09	CURRENT WINDOWS VERSION IS V8.4, AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.	
NEWS HOURS	STN Operating Hours Plus Help Desk Availability		
NEWS LOGIN	Welcome Banner and News Items		

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 09:04:28 ON 13 JAN 2010

=> d his

(FILE 'HOME' ENTERED AT 09:04:28 ON 13 JAN 2010)

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.22

0.22

FILE 'REGISTRY' ENTERED AT 09:04:36 ON 13 JAN 2010

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STRUCTURE FILE UPDATES: 11 JAN 2010 HIGHEST RN 1201890-95-0

DICTIONARY FILE UPDATES: 11 JAN 2010 HIGHEST RN 1201890-95-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

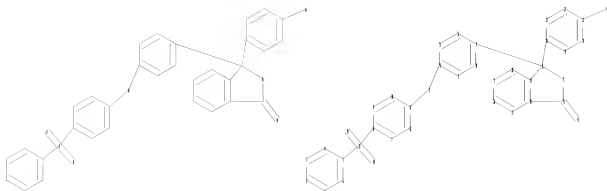
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

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Uploading C:\Program Files\STNEXP\Queries\10538352.str



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ring nodes :
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ring bonds :
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14-15 15-16 16-17 17-18 19-20 19-24 20-21 21-22 22-23 23-24 25-26 25-30
26-27 27-28 28-29 29-30 29-36 30-37 33-36 33-37
exact/norm bonds :
5-31 8-31 11-32 14-32 23-35 29-36 30-37 31-38 31-39 33-36 33-37 34-37
exact bonds :
17-36 20-36
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-18
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26-27 27-28 28-29 29-30

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Match level :
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11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
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38:CLASS 39:CLASS

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L1 STRUCTURE UPLOADED

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COMBINATION OF STRUCTURE AND TEXT TERMS NOT VALID
The query entered contains both search terms created by

structure-building or screen commands and text search terms. L#s created via the STRUCTURE or SCREEN commands must be searched in the structures files separately from text terms or profiles. The L# answer sets from structure searches can be used in crossover searches and can be combined with text terms.

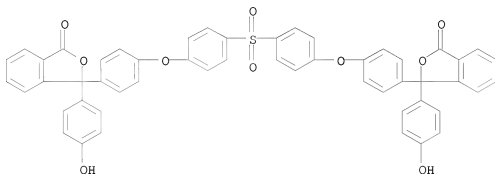
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FULL SCREEN SEARCH COMPLETED -      170 TO ITERATE
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100.0% PROCESSED 170 ITERATIONS 12 ANSWERS
SEARCH TIME: 00.00.01

L2 12 SEA SSS FUL L1

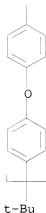
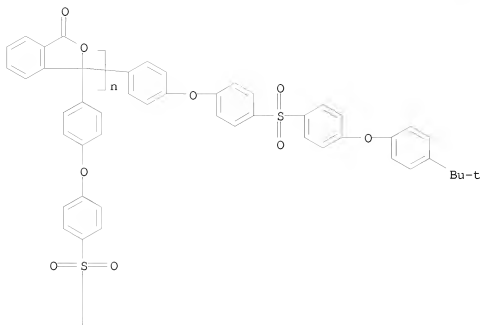
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L2 ANSWER 1 OF 12 REGISTRY COPYRIGHT 2010 ACS on STN
RN 742655-07-8 REGISTRY
ED Entered STN: 10 Sep 2004
CN 1(3H)-Isobenzofuranone, 3,3'-[sulfonylbis(4,1-phenyleneoxy-4,1-phenylene)]bis[3-(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)
MF C52 H34 O10 S
CI COM
SR CA



****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

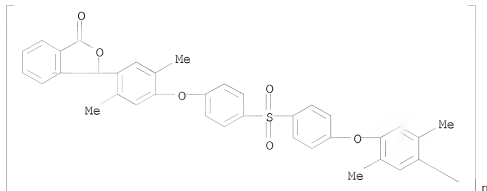
L2 ANSWER 2 OF 12 REGISTRY COPYRIGHT 2010 ACS on STN
RN 188585-62-8 REGISTRY
ED Entered STN: 24 Apr 1997
CN Poly[(3-oxo-1(3H)-isobenzofuranylidene)-1,4-phenyleneoxy-1,4-phenylenesulfonyl-1,4-phenyleneoxy-1,4-phenylene],
α-[4-[4-[[4-[4-(1,1-dimethylethyl)phenoxy]phenyl]sulfonyl]phenoxy]phenyl]-ω-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)
MF (C32 H20 O6 S)_n C32 H34 O4 S
CI PMS
PCT Polyether, Polysulfone
SR CA
LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 3 OF 12 REGISTRY COPYRIGHT 2010 ACS on STN
 RN 183867-10-9 REGISTRY
 ED Entered STN: 11 Dec 1996
 CN Poly[(3-oxo-1(3H)-isobenzofuran-2-ylidene)(2,5-dimethyl-1,4-phenylene)oxy-1,4-phenylenesulfonyl-1,4-phenyleneoxy(2,5-dimethyl-1,4-phenylene)] (9CI) (CA INDEX NAME)
 MF (C36 H28 O6 S)_n
 CI PMS
 PCT Polyether, Polysulfone
 SR CA
 LC STN Files: CA, CAPLUS

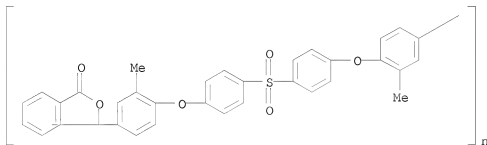
RELATED POLYMERS AVAILABLE WITH POLYLINK



5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 4 OF 12 REGISTRY COPYRIGHT 2010 ACS on STN
RN 183867-09-6 REGISTRY
ED Entered STN: 11 Dec 1996
CN Poly[(3-oxo-1(3H)-isobenzofuranylidene)(3-methyl-1,4-phenylene)oxy-1,4-phenylenesulfonyl-1,4-phenyleneoxy(2-methyl-1,4-phenylene)] (9CI) (CA INDEX NAME)
MF (C34 H24 O6 S)n
CI PMS
PCT Polyether, Polysulfone
SR CA
LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK



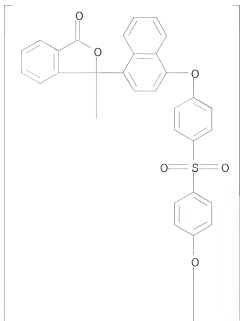
7 REFERENCES IN FILE CA (1907 TO DATE)
7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 5 OF 12 REGISTRY COPYRIGHT 2010 ACS on STN
RN 154442-40-7 REGISTRY
ED Entered STN: 19 Apr 1994
CN Poly[(3-oxo-1(3H)-isobenzofuranylidene)-1,4-naphthalenediyl-1,4-phenylenesulfonyl-1,4-phenyleneoxy-1,4-naphthalenediyl] (9CI) (CA INDEX NAME)
MF (C40 H24 O6 S)n
CI PMS
PCT Polyether, Polysulfone
SR CA

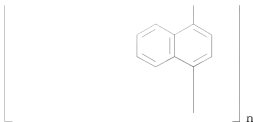
LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK

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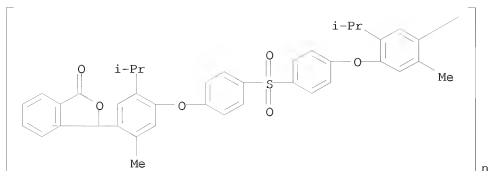
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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 6 OF 12 REGISTRY COPYRIGHT 2010 ACS on STN
RN 154442-38-3 REGISTRY
ED Entered STN: 19 Apr 1994
CN Poly[(3-oxo-1(3H)-isobenzofuranylidene)[2-methyl-5-(1-methylethyl)-1,4-phenylene]oxy-1,4-phenylenesulfonyl-1,4-phenyleneoxy[5-methyl-2-(1-methylethyl)-1,4-phenylene]] (9CI) (CA INDEX NAME)
MF (C40 H36 O6 S)n
CI PMS
PCT Polyether, Polysulfone
SR CA
LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK



6 REFERENCES IN FILE CA (1907 TO DATE)
6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 7 OF 12 REGISTRY COPYRIGHT 2010 ACS on STN
RN 91274-32-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN Poly[(3-oxo-1(3H)-isobenzofuranylidene)-1,4-phenyleneoxycarbonyl-1,4-phenylene(dichloroethenyldiene)-1,4-phenylenecarbonyloxy-1,4-phenylene(3-oxo-1(3H)-isobenzofuranylidene)-1,4-phenyleneoxy-1,4-phenylenesulfonyl-1,4-phenyleneoxy-1,4-phenylene] (9CI) (CA INDEX NAME)
MF (C68 H40 Cl2 O12 S)n
CI PMS
PCT Polyester, Polyether, Polysulfone
LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 8 OF 12 REGISTRY COPYRIGHT 2010 ACS on STN
RN 91263-56-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1,4-Benzenedicarbonyl dichloride, polymer with
3,3'-(sulfonylbis(4,1-phenyleneoxy-4,1-phenylene))bis[3-(4-hydroxyphenyl)-1(3H)-isobenzofuranone] disodium salt (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:

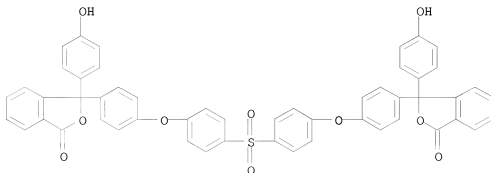
CN 1(3H)-Isobenzofuranone, 3,3'-[sulfonylbis(4,1-phenyleneoxy-4,1-phenylene)]bis[3-(4-hydroxyphenyl)-, disodium salt, polymer with
 MF 1,4-benzenedicarbonyl dichloride (9CI)
 CI (C52 H34 O10 S . C8 H4 Cl2 O2 . 2 Na)x
 PMS
 PCT Polyester, Polyester formed, Polyether, Polysulfone
 LC STN Files: CA, CAPLUS

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CRN 91260-39-8 (742655-07-8)

CMF C52 H34 O10 S . 2 Na

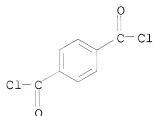


● 2 Na

CM 2

CRN 100-20-9

CMF C8 H4 Cl2 O2



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 9 OF 12 REGISTRY COPYRIGHT 2010 ACS on STN

RN 91263-55-7 REGISTRY

ED Entered STN: 16 Nov 1984

CN Benzoic acid, 4,4'-(dichloroethenyldiene)bis-, polymer with
 3,3'-[sulfonylbis(4,1-phenyleneoxy-4,1-phenylene)]bis[3-(4-hydroxyphenyl)-
 1(3H)-isobenzofuranone] disodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1(3H)-Isobenzofuranone, 3,3'-[sulfonylbis(4,1-phenyleneoxy-4,1-

phenylene)]bis[3-(4-hydroxyphenyl)-, disodium salt, polymer with
4,4'-(dichloroethenylidene)bis[benzoic acid] (9CI)

MF (C52 H34 O10 S . C16 H10 C12 O4 . 2 Na)x

CI PMS

PCT Polyester, Polyester formed, Polyether, Polystyrene, Polysulfone,
Polyvinyl

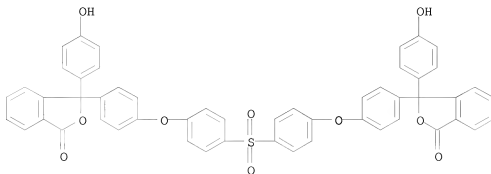
LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK

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CRN 91260-39-8 (742655-07-8)

CMF C52 H34 O10 S . 2 Na

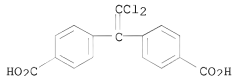


● 2 Na

CM 2

CRN 66955-59-7

CMF C16 H10 C12 O4



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 10 OF 12 REGISTRY COPYRIGHT 2010 ACS on STN

RN 91263-04-6 REGISTRY

ED Entered STN: 16 Nov 1984

CN Poly[(3-oxo-1(3H)-isobenzofuranylidene)-1,4-phenyleneoxycarbonyl-1,4-phenylenecarboxyloxy-1,4-phenylene(3-oxo-1(3H)-isobenzofuranylidene)-1,4-phenyleneoxy-1,4-phenylenesulfonyl-1,4-phenyleneoxy-1,4-phenylene] (9CI)
(CA INDEX NAME)

MF (C60 H36 O12 S)n

CI PMS

PCT Polyester, Polyether, Polysulfone

LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 11 OF 12 REGISTRY COPYRIGHT 2010 ACS on STN

RN 91260-39-8 REGISTRY

ED Entered STN: 16 Nov 1984

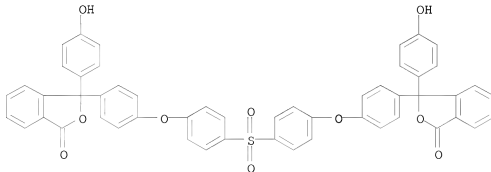
CN 1(3H)-Isobenzofuranone, 3,3'-[sulfonylbis(4,1-phenyleneoxy-4,1-phenylene)]bis[3-(4-hydroxyphenyl)-, disodium salt (9CI) (CA INDEX NAME)

MF C52 H34 O10 S . 2 Na

CI COM

LC STN Files: CA, CAPLUS

CRN (742655-07-8)



● 2 Na

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 12 OF 12 REGISTRY COPYRIGHT 2010 ACS on STN

RN 40883-78-1 REGISTRY

ED Entered STN: 16 Nov 1984

CN Poly[(3-oxo-1(3H)-isobenzofuranylidene)-1,4-phenyleneoxy-1,4-phenylenesulfonyl-1,4-phenyleneoxy-1,4-phenylene] (CA INDEX NAME)

OTHER NAMES:

CN 4,4'-Dichlorodiphenylsulfone-phenolphthalein copolymer, SRU

CN 4,4'-Difluorodiphenyl sulfone-phenolphthalein copolymer, SRU

CN Bis(4-fluorophenyl) sulfone-phenolphthalein sodium salt polymer, SRU

CN Bis(p-chlorophenyl) sulfone-phenolphthalein polymer, SRU

CN Bis(p-fluorophenyl) sulfone-phenolphthalein polymer, SRU

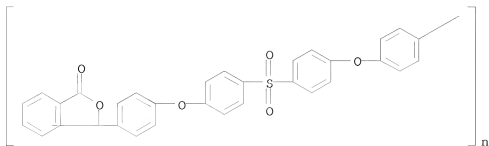
CN PES-C

CN Phenolphthalein-4,4'-sulfonylbis(chlorobenzene) copolymer, SRU

CN Poly(phthalidylidene-1,4-phenyleneoxy-1,4-phenylenesulfonyl-1,4-phenyleneoxy-1,4-phenylene)

DR 152987-44-5, 91263-05-7, 685088-63-5
MF (C32 H20 O6 S)n
CI PMS
PCT Polyether, Polysulfone
LC STN Files: AGRICOLA, CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL

RELATED POLYMERS AVAILABLE WITH POLYLINK



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

186 REFERENCES IN FILE CA (1907 TO DATE)
30 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
186 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	217.72	217.94

FILE 'CAPLUS' ENTERED AT 09:06:39 ON 13 JAN 2010
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FILE COVERS 1907 - 13 Jan 2010 VOL 152 ISS 3
FILE LAST UPDATED: 11 Jan 2010 (20100111/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2009

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L3 0 US 5198525/PN
(US5198525/PN)

=> s US 6232025/pn
L4 1 US 6232025/PN
(US6232025/PN)

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L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2010 ACS on STN
AN 2001:352222 CAPLUS
DN 134:359490
ED Entered STN: 17 May 2001
TI Electrophotographic photoconductors comprising polyaryl ethers
IN Srinivasan, Kasturi R.
PA Lexmark International, Inc., USA
SO U.S., 28 pp.
CODEN: USXXAM
DT Patent
LA English
IC ICM G03G005-047
ICS G03G005-04
INCL 430058400
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	WO 2001051995	A1	20010719	WO 2001-US612	20010109
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	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	EP 1247142	A1	20021009	EP 2001-901892	20010109
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
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	US 20010023047	A1	20010920	US 2001-766997	20010123
	US 6350553	B2	20020226		
PRAI	US 2000-480026	A	20000110		
	WO 2001-US612	W	20010109		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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	ICS	G03G005-04
	INCL	430058400
	IPCI	G03G0005-047 [ICM,7]; G03G0005-043 [ICM,7,C*]; G03G0005-04 [ICS,7]
	IPCR	G03G0005-05 [I,C*]; G03G0005-05 [I,A]; G03G0005-06

			[I,C*]; G03G0005-06 [I,A]; G03G0005-07 [I,C*]; G03G0005-07 [I,A]
	NCL		430/058.400; 430/058.350; 430/059.600; 430/096.000
	ECLA		G03G0005/05C4D; G03G0005/05C4H; G03G0005/05C4F; G03G0005/05C2D; G03G0005/06B5D; G03G0005/06B5; G03G0005/07B; G03G0005/07D; G03G0005/07D2; G03G0005/07S G03G0015-02 [ICM,7]; C08G0014-00 [ICS,7]; C08G0065-48 [ICS,7]; C08G0065-00 [ICS,7,C*]; C08L0071-12 [ICS,7]; C08L0071-00 [ICS,7,C*]
WO 2001051995	IPCI		G03G0005-05 [I,C*]; G03G0005-06 [I,A]; G03G0005-07 [I,C*]; G03G0005-07 [I,A]
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	ECLA		G03G0005/05C2D; G03G0005/05C4F; G03G0005/05C4H; G03G0005/05C4D; G03G0005/06B5; G03G0005/06B5D; G03G0005/07B; G03G0005/07D; G03G0005/07D2; G03G0005/07S G03G0015-02 [ICM,6]; C08G0014-00 [ICS,6]; C08G0065-48 [ICS,6]; C08G0065-00 [ICS,6,C*]; C08L0071-12 [ICS,6]; C08L0071-00 [ICS,6,C*]
EP 1247142	IPCI		G03G0005-05 [I,C*]; G03G0005-05 [I,A]; G03G0005-06 [I,C*]; G03G0005-06 [I,A]; G03G0005-07 [I,C*]; G03G0005-07 [I,A]
	IPCR		G03G0005-05 [I,A]; G03G0005-06 [I,C*]; G03G0005-06 [I,A]; G03G0005-07 [I,C*]; G03G0005-07 [I,A]
	ECLA		G03G0005/05C2D; G03G0005/05C4D; G03G0005/05C4F; G03G0005/05C4H; G03G0005/06B5; G03G0005/06B5D; G03G0005/07B; G03G0005/07D; G03G0005/07D2; G03G0005/07S G03G0005-043 [I,C]; G03G0005-047 [I,A]
CN 1236363	IPCI		G03G0005-043 [I,C]; G03G0005-047 [I,A]; C08G0014-00 [I,C]; C08G0014-00 [I,A]; C08G0065-00 [I,C]; C08G0065-48 [I,A]; C08L0071-00 [I,C]; C08L0071-12 [I,A]; G03G0005-05 [I,C*]; G03G0005-05 [I,A]; G03G0005-06 [I,C*]; G03G0005-06 [I,A]; G03G0005-07 [I,C*]; G03G0005-07 [I,A]
	ECLA		G03G0005/05C2D; G03G0005/05C4D; G03G0005/05C4F; G03G0005/05C4H; G03G0005/06B5; G03G0005/06B5D; G03G0005/07B; G03G0005/07D; G03G0005/07D2; G03G0005/07S G03G0005-047 [ICM,7]; G03G0005-043 [ICM,7,C*]
US 20010023047	IPCI		G03G0005-05 [I,C*]; G03G0005-05 [I,A]; G03G0005-06 [I,C*]; G03G0005-06 [I,A]; G03G0005-07 [I,C*]; G03G0005-07 [I,A]
	IPCR		G03G0005-05 [I,A]; G03G0005-06 [I,C*]; G03G0005-06 [I,A]; G03G0005-07 [I,C*]; G03G0005-07 [I,A]
	NCL		430/058.400; 430/058.100; 430/058.700; 430/096.000; 430/133.000; 430/135.000; 430/058.350; 430/059.600
	ECLA		G03G0005/05C2D; G03G0005/05C4F; G03G0005/05C4H; G03G0005/05C4D; G03G0005/06B5; G03G0005/06B5D; G03G0005/07B; G03G0005/07D; G03G0005/07D2; G03G0005/07S

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB A photoconductor comprises at least one layer on a substrate. The at least one layer is selected from the group consisting of charge transfer layers comprising a charge transfer mol., polycarbonate and a first polyaryl ether selected from the group consisting of polyaryletherketones, poly(aryl-perfluoroaryl ether)s, polyaryletherketone-hydrazones, polyaryletherketone-azines and mixts. and copolymers thereof; charge generating layers comprising a pigment, a polyvinylbutyral and a second polyaryl ether selected from the group consisting of polyaryletherketones, polyarylethersulfones and mixts. and copolymers thereof, and mixts. thereof. The invention improves the charging characteristics of the photoconductors while providing the long service-life.

ST electrophotog photoconductor comprising polyaryl ether

IT Electrophotographic photoconductors (photoreceptors)

(electrophotog. photoconductors comprising polyaryl ethers)

IT Hydrazones

Polyvinyl butyrals

RL: TEM (Technical or engineered material use); USES (Uses)

(electrophotog. photoconductors comprising polyaryl ethers)

IT Polyketones
 RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (polyether-, aromatic; electrophotog. photoconductors comprising polyaryl ethers)

IT Polyketones
 RL: TEM (Technical or engineered material use); USES (Uses)
 (polyether-, cardo; electrophotog. photoconductors comprising polyaryl ethers)

IT Cardo polymers
 RL: TEM (Technical or engineered material use); USES (Uses)
 (polyether-polyketones; electrophotog. photoconductors comprising polyaryl ethers)

IT Polyethers, preparation
 RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (polyketone-, aromatic; electrophotog. photoconductors comprising polyaryl ethers)

IT Polyethers, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (polyketone-, cardo; electrophotog. photoconductors comprising polyaryl ethers)

IT 530-47-2DP, 1,1-Diphenylhydrazine hydrochloride, azine with polyether-polyketones 530-47-2DP, 1,1-Diphenylhydrazine hydrochloride, reaction product with poly ether with benzophenone repeating unit 13629-22-6DP, Fluorenone hydrazone, azine with polyether-polyketones 13629-22-6DP, Fluorenone hydrazone, reaction product with poly ether with benzophenone repeating unit 25897-65-8DP, Bisphenol A-4,4'-difluorobenzophenone copolymer, azine with 1,1-diphenylhydrazine hydrochloride 25897-65-8DP, Bisphenol A-4,4'-Difluorobenzophenone copolymer, hydrazone with fluorenone hydrazone 25897-65-8P, Bisphenol A-4,4'-difluorobenzophenone copolymer 31694-10-7P 40690-49-1P 40690-50-4DP, azine with fluorenone hydrazone 40690-50-4P, Phenolphthalein-4,4'-Difluorobenzophenone copolymer 40793-56-4DP, azine with fluorenone hydrazone 40793-56-4P, Bisphenol fluorenone-4,4'-Difluorobenzophenone copolymer 40883-78-1P 40883-84-9DP, azine with fluorenone hydrazone 40883-84-9P 41205-96-3DP, Bisphenol A-4,4'-difluorobenzophenone copolymer, sru, azine with 1,1-diphenylhydrazine hydrochloride 41205-96-3DP, Bisphenol A-4,4'-Difluorobenzophenone copolymer, sru, hydrazone with fluorenone hydrazone 41205-96-3P, Bisphenol A-4,4'-Difluorobenzophenone copolymer, sru 41206-07-9DP, azine with fluorenone hydrazone 41206-07-9P, Bisphenol fluorenone-4,4'-Difluorobenzophenone copolymer, sru 92783-66-9DP, azine with 1,1-diphenylhydrazine hydrochloride 92783-66-9P, Bisphenol Z-4,4'-Difluorobenzophenone copolymer, sru 117344-37-3DP, azine with 1,1-diphenylhydrazine hydrochloride 117344-37-3P, Bisphenol Z-4,4'-Difluorobenzophenone copolymer 122159-35-7P, Bisphenol A-bisphenol fluorenone-4,4'-Difluorobenzophenone copolymer 128482-11-1P 141509-15-1P 145955-51-7P 185564-16-3DP, azine with 1,1-diphenylhydrazine hydrochloride 185564-16-3P 339279-79-5P 339279-78-6P 339279-79-7P 339279-80-0P 339279-81-1P
 RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (electrophotog. photoconductors comprising polyaryl ethers)

OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

UPOS.G Date last citing reference entered STN: 30 Dec 2009

OS.G CAPLUS 2007:504905; 2005:1155383; 2005:1965; 2004:534488

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE CITED REFERENCES

(1) Adley; US 5130215 1992 CAPLUS

(2) Allen; US 5322755 1994 CAPLUS

(3) Anon; JP 63239454 1988 CAPLUS

(4) Anon; JP 63247757 1988 CAPLUS
 (5) Anon; JP 6370256 1988
 (6) Anon; EP 0501455 A1 1992 CAPLUS
 (7) Balthis; US 5545499 1996
 (8) Daoust; US 4657990 1987 CAPLUS
 (9) Irvin; Journal of Polymer Science:Part A: Polymer Chemistry 1992, V30, P1675 CAPLUS
 (10) Ishikawa; US 5073466 1991 CAPLUS
 (11) Kan; US 4772526 1988 CAPLUS
 (12) Kelsey; US 4882397 1989 CAPLUS
 (13) Kierstein; US 6042980 2000 CAPLUS
 (14) Mercer; Low Dielectric Constant Fluorinated Aryl Ethers Prepared From Decafluorobiphenyl, Corporate Research and Development
 (15) Muller; US 5006443 1991
 (16) Nakamura; US 5837410 1998 CAPLUS
 (17) Nogami; US 5725982 1998 CAPLUS
 (18) Roovers; US 5288834 1994 CAPLUS
 (19) Rose; US 4419486 1983 CAPLUS
 (20) Suzuki; US 5344733 1994 CAPLUS
 (21) Towle; US 4990589 1991 CAPLUS

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=> s 25135-51-7

L5 1 25135-51-7
 (25135-51-7/RN)

=> d 1

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2010 ACS on STN
 RN 25135-51-7 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Poly[oxy-1,4-phenylenesulfonyl-1,4-phenyleneoxy-1,4-phenylene(1-methylethylidene)-1,4-phenylene] (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Poly(oxy-p-phenylenesulfonyl-p-phenyleneoxy-p-phenyleneisopropylidene-p-phenylene) (8CI)
 OTHER NAMES:
 CN 4,4'-Bisfluorophenyl sulfone-bisphenol A copolymer, SRU
 CN 4,4'-Dichlorodiphenyl sulfone-diphenylolpropane disodium salt copolymer, sru
 CN 4,4'-Dichlorodiphenyl sulfone-diphenylolpropane polymer, SRU
 CN 4,4'-Dichlorodiphenylsulfone-diphenylolpropane copolymer, sru
 CN Amicon Diaflo PM 30
 CN Amicon PM 30
 CN Amoco P 3500
 CN B 10
 CN B 10 (polyethersulfone)
 CN Bis(4-chlorophenyl) sulfone-2,2-bis(4-hydroxyphenyl)propane copolymer, SRU
 CN Bis(4-chlorophenyl) sulfone-bisphenol A copolymer, SRU
 CN Bis(p-fluorophenyl) sulfone-bisphenol A polymer, SRU
 CN Bisphenol A disodium salt-4,4'-dichlorodiphenyl sulfone copolymer, SRU
 CN Bisphenol A polysulfone
 CN Bisphenol A-4,4'-dichlorodiphenyl sulfone copolymer, SRU
 CN Bisphenol A-4,4'-dichlorodiphenyl sulfone polymer, SRU
 CN Bisphenol A-4,4'-difluorodiphenyl sulfone copolymer, SRU
 CN Bisphenol A-4,4'-dihydroxydiphenyl sulfone copolymer, sru
 CN Bisphenol A-4,4'-dihydroxydiphenyl sulfone polymer, SRU
 CN Bisphenol A-4,4'-sulfonyldiphenol polymer, SRU
 CN Bisphenol A-bis(4-chlorophenyl) sulfone copolymer, SRU
 CN Bisphenol A-bis(p-chlorophenyl) sulfone polymer, SRU
 CN Bisphenol A-p,p'-dichlorodiphenyl sulfone copolymer, SRU
 CN Bisphenol A-p-chlorophenyl sulfone copolymer, SRU
 CN Bisphenol A-p-dichlorodiphenylsulfone copolymer, SRU
 CN Desal E 100
 CN Diaflo PM 30
 CN Dian-4,4'-difluorodiphenyl sulfone copolymer, SRU
 CN FS 1200
 CN Gafone S 1500
 CN Gafone S 1500P
 CN Gatone 3200P
 CN IRIS 3026
 CN Kimfone
 CN OASO 10D
 CN P 1700
 CN P 1700BK937
 CN P 1700NT
 CN P 1700NT11
 CN P 1720
 CN P 1800
 CN P 1800NT
 CN P 3500
 CN P 3703
 CN PEESEF
 CN PM 30
 CN Poly(oxy-1,4-phenylenesulfonyl-1,4-phenyleneoxy-1,4-phenyleneisopropylidene-1,4-phenylene)
 CN Poly(oxy-p-phenyleneisopropylidene-p-phenyleneoxy-p-phenylenesulfonyl-p-phenylene)
 CN Poly(sulfonyl-p-phenyleneoxy-p-phenyleneisopropylidene-p-phenyleneoxy-p-phenylene)

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
DISPLAY

DR 850081-57-1, 953795-39-6, 1054451-59-0, 916042-54-1, 949586-40-7,
949586-44-1, 496947-79-6, 9084-64-4, 171040-41-8, 126430-90-8, 58516-07-7,
54847-90-4, 63770-66-1, 133019-40-6, 24937-09-5, 94336-28-4, 98989-93-6,
113536-31-5, 113552-88-8, 50958-07-1, 51310-66-8, 51426-17-6, 119441-79-1,
119441-80-4, 119441-81-5, 119468-26-7, 115232-25-2, 136922-61-7,
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84930-44-9, 87714-78-1, 87806-52-8, 92480-75-6, 26699-43-4, 26894-27-9,
30792-92-8, 38797-91-0, 38797-92-1, 42881-29-8, 118087-83-5, 169741-56-4,
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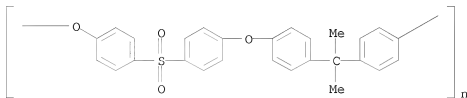
MF (C27 H22 O4 S)n

CI PMS, COM

PCT Polyether, Polysulfone

LC STN Files: AGRICOLA, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CHEMCATS,
CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA,
MEDLINE, MSDS-OHS, PIRA, PROMT, SPECINFO, TOXCENTER, USPAT2, USPATFULL,
USPATOLD

RELATED POLYMERS AVAILABLE WITH POLYLINK



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4097 REFERENCES IN FILE CA (1907 TO DATE)
611 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
4097 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> s 40883-78-1

L6 1 40883-78-1
(40883-78-1/RN)

=> d 1

L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2010 ACS on STN

RN 40883-78-1 REGISTRY

ED Entered STN: 16 Nov 1984

CN Poly[(3-oxo-1(3H)-isobenzofuranylidene)-1,4-phenyleneoxy-1,4-
phenylenesulfonyl-1,4-phenyleneoxy-1,4-phenylene] (CA INDEX NAME)

OTHER NAMES:

CN 4,4'-Dichlorodiphenylsulfone-phenolphthalein copolymer, SRU

CN 4,4'-Difluorodiphenyl sulfone-phenolphthalein copolymer, SRU

CN Bis(4-fluorophenyl) sulfone-phenolphthalein sodium salt polymer, SRU

CN Bis(p-chlorophenyl) sulfone-phenolphthalein polymer, SRU

CN Bis(p-fluorophenyl) sulfone-phenolphthalein polymer, SRU

CN PES-C

CN Phenolphthalein-4,4'-sulfonylbis(chlorobenzene) copolymer, SRU

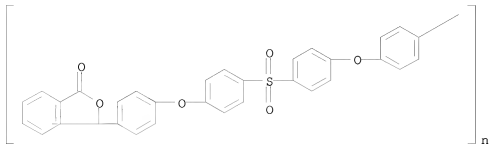
CN Poly(phthalidylidene-1,4-phenyleneoxy-1,4-phenylenesulfonyl-1,4-
phenyleneoxy-1,4-phenylene)

DR 152987-44-5, 91263-05-7, 685088-63-5

MF (C32 H20 O6 S)n

CI PMS
PCT Polyether, Polysulfone
LC STN Files: AGRICOLA, CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL

RELATED POLYMERS AVAILABLE WITH POLYLINK



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

186 REFERENCES IN FILE CA (1907 TO DATE)
30 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
186 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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